#### From the INTERNATIONAL SEARCHING AUTHORITY

To: WILLIAM B. PATTERSON PATTERSON & SHERIDAN, LLP 3040 POST OAK BLVD., SUITE 1500 HOUSTON, TX 77056	PCT  NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION			
	(PCT Rule 44.1)			
	Date of mailing (day/month/year)			
Applicant's or agent's file reference CATT/0013-PC	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No.	International filing date			
PCT/US07/63718 Applicant	(day/month/year) 09 March 2007 (09.03.2007)			
CAT TECH, INC.				
The applicant is hereby notified that the international sea have been established and are transmittedherewith.	rch report and the written opinion of the International Searching Authority			
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the cla				
·-	s normally two monthsfrom the date of transmittal of the international			
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.				
For more detailed instructions, see the notes on the a	eccompanying sheet.			
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.				
3. With regard to the protest against payment of (an) addition	tional fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereonhas bee request to forward the texts of both the protest and the texts of both the	en transmitted to the International Bureau together with the applicant's he decision thereon to the designated Offices.			
no decision has been made yet on the protest; the ap	pleant will be notified as soon as a decision is made.			
4. Reminders				
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.				
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.				
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.				
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.				
Name and mailing address of the ISA/US	Authorized officer /Timothy L. Maust/ Anna Hadd			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	/Timothy L. Maust/			
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201  Telephone No. (571) 272-4395				
PCT/ISA (220 (Ignuary 2004)	(Sag notes on accompanying sheet)			

DECEIVED MAY - 8 2008

From the INTERNATIONAL SEARCHING AUTHORITY

To: WILLIAM B. PATTERSON	PCT			
PATTERSON & SHERIDAN, LLP 3040 POST OAK BLVD., SUITE 1500 HOUSTON, TX 77056	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION			
·	(PCT Rule 44.1)			
	Date of mailing (day/nionth/year) 0.5 MAY 2008			
Applicant's or agent's file reference CATT/0013-PC	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US07/63718	International filing date (day/month/year) 09 March 2007 (09.03.2007)			
Applicant CAT TECH, INC.				
The applicant is hereby notified that the international sea have been established and are transmittedherewith.	rch report and the written opinion of the International Searching Authority			
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the ch				
When? The time limit for filing such amendments is search report.	normally two monthsfrom the date of transmittal of the international			
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.				
For more detailed instructions, see the notes on the a				
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the protest together with the decision thereonhas bee	n transmitted to the International Bureau together with the applicant's he decision thereon to the designated Offices.			
	pleant will be notified as soon as a decision is made.			
4. Reminders				
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Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.				
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.				
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.				
Name and mailing address of the SA/US	Authorized officer  /Timothy L. Maust/ Change Head			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	/Timothy L. Maust/			
P.O. Box 1450 Alexandria, Virginia 22313-1450  Telephone No. (571) 272-4395				
Facsimile No. (571) 273-3201 (See notes on accompanying she				

# **PCT**

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference CATT/0013-PC	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below		
International application No. PCT/US07/63718	International filing date (day/n 09 March 2007 (09.03.2007)			
Applicant CAT TECH, INC.				
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of				
may, within one month from the figure of the drawings,  a. the figure of the drawings to be put  as suggested by the ap  as selected by this Aut	according to Rule 38.2(b), by the date of mailing of this internate blished with the abstract is Figure plicant.  Thority, because the applicant fatherity, because this figure better	ational search r are No. <u>4</u> ailed to suggest		

Form PCT/ISA/210 (first sheet) (April 2007)

### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/63718

A. CLASSIFICATION OF SUBJECT MATTER IPC: B67C 3/26( 2006.01);B65G 1/00( 2006.01)				
USPC: 141/256,250,374;414/301 According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIEL	DS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 141/256, 250, 374; 414/301				
Documentati	on searched other than minimum documentation to the	extent that	such documents are included in	the fields searched
Electronic da EAST	ta base consulted during the international search (name	e of data ba	se and, where practicable, search	terms used)
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate,	of the relevant passages	Relevant to claim No.
Х	US 5,247,970 A (RYNTVEIT et al.) 28 September 1	993 (28.09	1993), see entire document.	1, 3, 4, 11, 14
х	US 2,114,103 A (DRISCOLL et al.) 12 April 1938 (12.04.1938), see entire document.			5-7
A	US 3,749,258 A (JAMES) 31 July 1973 (31.07.1973), see entire document.			1-14
	·			
Further	documents are listed in the continuation of Box C.		See patent family annex.	
Special categories of cited documents:  "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the particular relevance "X" document defining the general state of the art which is not considered to be of particular relevance; the daimed invention cannot be				
	lication or patent published on or after the international filing date		considered novel or cannot be considere when the document is taken alone	d to involve an inventive step
L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combi with one or more other such documents, such combination being				when the document is combined
"O" document	referring to an oral disclosure, use, exhibition or other means		obvious to a person skilled in the art	
priority da	document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed			
Date of the actual completion of the international search  1 March 2008 (31.03.2008)  Date of mailing of the international search report  0.5 MAY 2008				
7. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.				
Mail Com	Stop PCT, Attn: ISA/US unissioner for Patents Box 1450	· ·	L. Maust/ And	Halk
Alex	candria, Virginia 22313-1450 (571) 273-3201	Lelephon	: No. (571) 272-4395	ful

INTERNATI	ONAL SEARCHING AUTH	ORITY		
To: WILLIAM B. PATTERSON PATTERSON & SHERIDAN, LLP		PCT		
	OAK BLVD., SUITE 1500 , TX 77056			RITTEN OPINION OF THE
1.000.01	, 111 77000		INTERNATI	ONAL SEARCHING AUTHORITY
			(PCT Rule 43 <i>bis</i> .1)	
	•		Date of mailing (day/month/year)	0 5 MAY 2008
Applicant's	or agent's file reference		FOR FURTHER ACTION	
CATT/0013	-PC			See paragraph 2 below
Internationa	l application No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/US07/		09 March 2007 (09.03.2		16 March 2006 (16.03.2006)
1	Patent Classification (IPC)		ion and IPC	
IPC: BO USPC: 14	67C 3/26( 2006.01);B65G 1/ 1/250,256,374;414/301	00( 2006.01)		
Applicant				
CAT TECH	, INC.			
		4 4 CH - 1		
<u></u>	inion contains indications rela		s:	
. —	Box No. I Basis of the	opinion		
닏 '	Box No. II Priority			
<u></u> Ц :	Box No. III · Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV Lack of unity of invention			
⊠ ı	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI Certain doc	uments cited		·
П	Box No. VII Certain defe	ects in the international app	olication	
	Box No. VIII Certain observations on the international application			
2. FURTI	HER ACTION			
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.				
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.				
For further options, see Form PCT/ISA/220.				
3. For further details, see notes to Form PCT/ISA/220.				
Name and ma	ailing address of the ISA/ US	Date of complet	ion of this opinion	Authorized officer
Mai	1 Stop PCT, Attn: ISA/US nunissioner for Patents	31 March 2008	(31.03.2008)	Timothy L. Maust M. Wert
P.O.	Box 1450			Authorized officer  /Timothy L. Maust/ Aug Wolf  Telephone No. (571) 272-4395
Facsimile No.	kandria, Virginia 22313-1450 . (571) 273-3201			Telephone No. (571) 272-4395
orm PCT/ISA	orm PCT/ISA/237 (cover sheet) (April 2007)			

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US07/63718

Box No	o. I Basis of this opinion
1. With a	regard to the language, this opinion has been established on the basis of:
	the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2.	This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))
	regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been ished on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	on paper
	in electronic form
c.	time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
4. 🗌	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additio	onal comments:
	·
	·

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US07/63718

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. Statement			
Novelty (N)	Claims 8-10	YES	
	Claims 1,3-7, 11,14		
Inventive step (IS)	Claims <u>8-10</u>	YES	
mvenuve step (13)	Claims 2,12,13	NO	
Industrial applicability (IA)	Claims 1-14 Claims NONE	YES	
	Claims NORE		
2. Citations and explanations:			
Claims 1, 3, 4, 11 and 14 lack novelty under PCT A	rticle 33(2) as being anticipated by Ryntveit et al	ı.	
Claims 1- are rejected under 35 U.S.C. 102(b) as be	ing anticipated by Ryntveit et al.		
In regard to claims 1, 11 and 14, the Ryntyeit et al. tube 1, comprising:	eference discloses a loading tool (see Figure 2) i	for distributing solid particles into a	
a "center member" 4; and a plurality of substantially member including at least two rigid and "opposing a in at least two opposing directions and each damper	irms" 7 extending outwards at substantially nine	ty degrees from the center member	
In regard to claims 3 and 4, the method as claimed v	vould be inherent during normal use and operation	on of the device.	
Claims 5-7 lack novelty under PCT Article 33(2) as In regard to claims 5-7, the reference discloses a loz of "spiral shapes" 20 having different diameters.	being anticipated by Driscoll et al. ding tool (see Figure 1) comprising a "stiffened of	central member" 19 and a plurality	
Claims 2, 12 and 13 lack an inventive step under PC The Ryntyeit et al. reference discloses the invention being "Z-shaped". It would have been an obvious m has not disclosed that a Z-shaped damper solves any without a Z-shaped damper.	substantially as claimed (discussed supra), but d atter of design choice to employ Z-shaped damp	loesn't disclose the repeating shapes ers on the device, since applicant	
Claims 8-10 the criteria set out in PCT Article 33(2) solid particles into a tube, as claimed.	-(3), because the prior art does not teach or fairly	suggest a method for distributing	
Claims 1-14 meet the criteria set out in PCT Article be made or used in industry.	33(4), and thus have industrial applicability beca	ause the subject matter claimed can	
	•		
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•			
	•		

### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the daim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying lefter:

- Where originally there were 48 claims and after amendment of some claims there are 51]:
  "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers, claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- (Where originally there were 15 claims and after amendment of all claims there are 11):
   "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]: "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- Where various kinds of amendments are made]:
  "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must b. brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43bis. 1(c)).

## Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.

### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions. under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

# INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see PCT Applicant's Guide, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see PCT Applicant's Guide, Volume 1/A, paragraph 296).

## What parts of the international application may be amended?

Under Article 19, only the daims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time When? limit but before the completion of the technical preparations for international publication (Rule 46.1).

### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one How? or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.